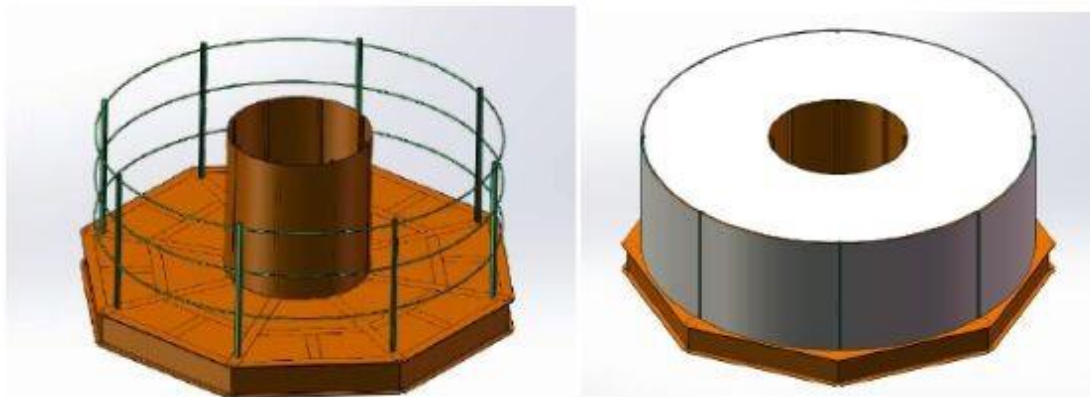
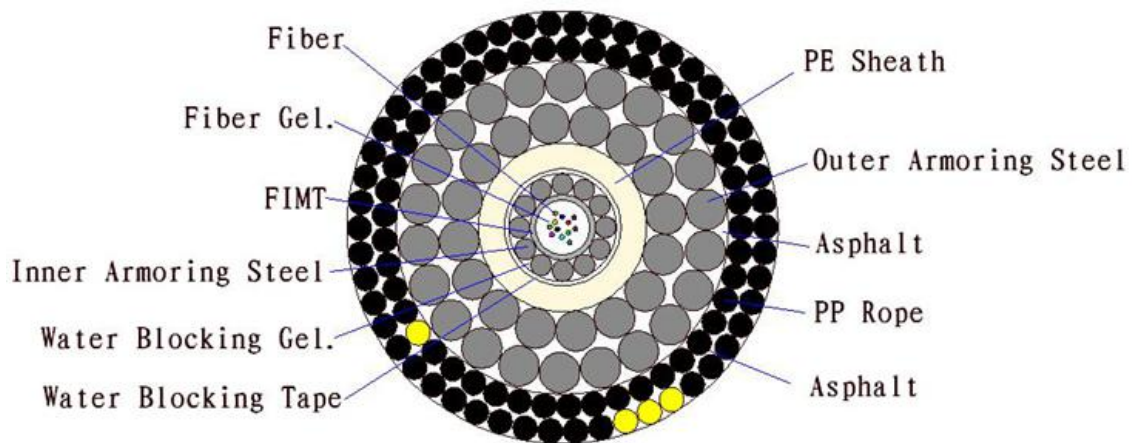


## Unrepeated Submarine Cable

### Application:

The submarine cable is laying in the rivers and ocean, for mainland and the islands, islands and islands and offshore devices communications and data transmission. It is mainly used in the transoceanic optical communication systems, observation networks and oil exploration.

### Cable Structure:



### Standard Reference:

ITU-T G.652, ITU-T G.971, ITU-T G.972, ITU-T G.976, IEC60793-1, IEC60793-2

### Transmission performance:

Fiber Type	62.5 $\mu$ m(OM1) (850/1300nm)	50 $\mu$ m(OM2) (850/1300nm)	G652 (1310/1550nm)	G655 (1550/1625nm)
Max. Attenuation(dB/km)	3.5/1.5	3.5/1.5	0.36/0.22	0.22/0.26
Typical. Attenuation(dB/km)	3.5/1.5	3.0/1.0	0.35/0.21	0.21/0.24

\* Other type of optical fiber can be used according to customer's requirements.

**Cable Parameters:**

Items	Unit	Parameter
Max. Fiber	No.	48
Cable O.D.	mm	Φ29.7
Weight in air, approximately.	T/km	2.2
Weight in seawater, approximately.	T/km	1.5
Maximum Deployment Ocean Depth	m	600
Minimum Breaking Load, (UTS)	kN	303
Nominal Transient Tensile Load, (NTTS)	kN	212
Nominal Operating Tensile Load, (NOTS)	kN	106
Nominal Permanent Tensile Load, (NPTS)	kN	70
Minimum Bending Radius	m	1.5
Operating Temperature Range	℃	-10 ~ +40
Handling Temperature Range	℃	-15 ~ +45
Storage Temperature Range	℃	-30 ~ +60
Crush	kN	20
Impact	J	200

\* The cable parameters are typical values and should be adjusted according to the actual situation.

\*\* The cable can be designed according to customer's requirements.